CLAIMS

(original) A composition for prevention and treatment of oral cavity diseases, 1. comprising a therapeutic agent in a biocompatible polymeric material,

wherein said therapeutic agent is soluble both in water and in alcohol, and that said biocompatible polymeric material is a liquid methacrylate copolymer EUDRAGIT® RL or EUDRAGIT® RS and mixtures thereof,

wherein a film is formed by spreading topically said composition and said therapeutic agent is released progressively by water permeation through said polymeric material.

- 2. (original) The composition of claim 1, wherein said liquid methacrylate copolymer is a mixture of EUDRAGIT® RS 100 and EUDRAGIT® RL 100.
- 3. (original) The composition of claim 1, wherein the ratio RS/RL is comprised between 1.5:1 and 3:1.
- (original) The composition of claim 1, wherein the solvent of said liquid methacrylate copolymer is an alcoholic solvent that further comprises 1-20% water.
- (original) The composition of claim 1, wherein said therapeutic agent is selected from the group consisting of:

antibacterial agents--chlorexidine acetate, thimerosal cetylpiridinio chloride, benzalkonium chloride, cetrimide, benzethonium chloride;

antibiotics-piperacillin sodium, carbenicillin sodium carindacillin sodium, chloramphenicol sodium succinate, clindamycin palmitate hydrochloride, cloxacillin sodium, erythromycin gluceptate and lactobionate, flucloxacillin sodium, lincomycin hydrochloride, nafcillin sodium, tetracycline hydrochloride, minociclyne;

dentinal desensitising agents--strontium chloride, zinc chloride, calcium chloride, magnesium chloride stannous chloride, potassium sorbate

antivirals-acyclovir, idoxouridine, amantadine, and mixtures thereof.

6. (withdrawn) The composition of claim 1, wherein said biocompatible polymeric material and said therapeutic agent are mixed in the following weight ratio

Eudragit RL 100 0.3-5% (w/w)

Eudragit RS 100 0.5-10% (w/w)

Therapeutic agent 1-20% (w/w)

Ethanol 96% q.s. 100 g

7. (withdrawn) The composition of claim 1, wherein said biocompatible polymeric material and said therapeutic agent are mixed in the following weight ratio

Eudragit RL 100 0.3-5% (w/w)

Eudragit RS 100 0.5-10% (w/w)

Therapeutic agent 1-20% (w/w)

Purified water 1-20% (w/w)

Ethanol 96% q.s. 100 g

- 8. (original) The composition of claim 1, wherein said therapeutic agent is selected from the group consisting of: Piperacillin sodium, Cholramphenicol sodium succinate, and Clindamycin palmitate.
- 9. (withdrawn) The composition of claim 1, wherein said biocompatible polymeric material and said therapeutic agent are mixed in the following weight ratio

Eudragit RL 100 0.3-5% (w/w)

Eudragit RS 100 0.5-10% (w/w)

Cetrimide 0.1-1%(w/w)

Chlorexidine acetate 0.05-0.5% (w/w)

Ethanol 96% q.s. 100 g

10. (withdrawn) The composition of claim 1, wherein said biocompatible polymeric material therapeutic agents are mixed in the following weight ratio

Calcium chloride 1-15% (w/w)

Zinc chloride 1-15% (w/w)

Eudragit RS100 0.5-12% (w/w)

Ethanol 96% q.s. 100 g

wherein a second solution is added topically according to the following composition

Potassium fluoride 1-15% (w/w)

Dibasic potassium phosphate 1-20% (w/w)

Purified water q.s. 100 g is added topically for desensitisation of exposed dentin.

11. (withdrawn) The composition of claim 1, wherein said biocompatible polymeric material therapeutic agents are mixed in the following weight ratio

Zinc chloride 1-10% (w/w)

Strontium chloride 1-10% (w/w)

Eudragit RS 100 0.5-12% (w/w)

Purified water 1-20% (w/w)

Ethanol 96% q.s. 100 g

wherein a second solution according to the following composition

Potassium fluoride 1-20% (w/w)

Purified water q.s. 100 g

is added topically for desensitisation of exposed dentin.

- 12. (withdrawn) The composition of claim 1, for treating diseases caused by Herpes Labialis, wherein said biocompatible polymeric material and therapeutic agents are mixed in the following weight ratio Acyclovir 1-5% (w/w) Eudragit RL100 0.3-5%(w/w) Eudragit RS100 0.5-10% (w/w) Transcutol 1-15% (w/w) Ethanol 96% q.s. 100 g
- 13. (original) A composition for the desensitisation of exposed dentin, comprising a therapeutic agent in a biocompatible polymeric material, wherein said biocompatible polymeric material is a liquid methacrylic polymer, said therapeutic agent is soluble both in water and in alcohol and is an alcoholic solution or an alcoholic gel of a zinc salt and a salt selected from the group consisting of calcium salt, a strontium salt, and a combination thereof, and said therapeutic agent in a biocompatible polymeric material being combined topically to an aqueous solution or an aqueous gel of potassium fluoride, with addition of dibasic potassium phosphate.